

What is claimed is:

1. A method of designing an integrated circuit, comprising:

identifying a programmable logic core;

identifying an application;

designing an application specific circuit for the application;

and

integrating the programmable logic core into the designed
application specific circuit.

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2. A method of designing an integrated circuit, comprising:

identifying a programmable logic core for the integrated
circuit;

establishing a set of timing constraints associated with the
programmable logic core; and

controlling the design of application specific circuit that
interfaces with the programmable logic core in the integrated circuit in
accordance with the set of timing constraints.

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3. A method of designing an integrated circuit, comprising:

identifying a programmable logic core for the integrated
circuit;

establishing a sign-off design associated with the
programmable logic core; and

controlling the design of application specific circuit that
interfaces with the programmable logic core in the integrated circuit in
accordance with the sign-off design.

4. An integrated circuit, comprising:

a programmable logic core; and

application specific circuitry, the application specific

10 circuitry being designed in accordance with a sign-off design.

5. An integrated circuit according to claim 4, wherein the
programmable logic core includes:

a programmable multi-scale array;

an application circuit interface for providing a signal
interface between the programmable multi-scale array and the
application specific circuitry; and

a programmable logic adapted that configures the
programmable multi-scale array.